

CHRONICALLY-IMPLANTED DEVICE FOR SENSING AND THERAPY

Abstract of the Disclosure

- 5 Systems, devices and methods are provided for providing sensing and therapy functions using a chronically-implanted device. According to one embodiment, the device includes a structure adapted to be chronically placed within a biosystem, and further includes sensing circuitry and therapy-providing circuitry attached to the structure. The sensing circuitry is adapted to sense mechanical
- 10 parameters in the biosystem. The therapy-providing circuitry is adapted to provide therapy to the biosystem. According to various embodiments of the device, the sensing circuitry is further adapted to sense electrical and/or chemical parameters in the biosystem, and/or is adapted to provide electrical therapy and/or to provide drug-eluting therapy. One embodiment of the device includes a stent-like structure
- 15 adapted to be chronically placed intravascularly in the biosystem.

"Express Mail" mailing label number: EV019094588US

Date of Deposit: February 19, 2002

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.